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C L A I M S

1. Medical or dental medical handpiece (1),
5 characterized in that,
it has a display (21) for the showing of work-relevant data or images.
2. Handpiece according to claim 1,
10 characterized in that,
it is formed rod-like and the display (21) has a longitudinally directed spacing (e) from the forward end of the handpiece (1), which spacing is preferably at least about 20 to 80 mm, in particular about 30 to
15 50 mm, or greater.
3. Handpiece according to claim 2,
characterized in that,
20 rearwardly of the display (21) the handpiece (1) has a grip section (3), preferably extending straight.
4. Handpiece according to claim 1,
characterized in that,
25 the forward longitudinal region of the handpiece (1) is angled or curved to the side.
5. Handpiece according to claim 4,
characterized in that,
30 the display (21) is arranged in a longitudinal region which extends approximately from the forward end
region of the grip section (9; 48) up to approximately the middle region of the angling or curvature.
- 35 6. Handpiece according to claim 4,
characterized in that,
the display (21) is arranged on the side of the

handpiece (1) which is away from the direction of angling or the direction of curvature.

7. Handpiece according to claim 1,
5 characterized in that,
the display area (21a) is arranged on the surface of the handpiece (1) or projects beyond the surface and extends preferably approximately parallel thereto or includes with the surface an acute angle (W3) which
10 is forwardly opened..
8. Handpiece according to claim 1,
characterized in that,
it has one or more actuating elements (22) for the
15 switching on and switching off of the showing of different data items or images on the display (21).
9. Handpiece according to claim 8,
characterized in that,
20 the actuating element or elements (22) are arranged in the edge region of the display (21), preferably in the rearward edge region and/or in the forward edge region.
- 25 10. Handpiece according to claim 8,
characterized in that,
there is provided an actuating element (22) with which a still image can be switched on or switched off on the display (21), and/or there is provided an
30 actuating element with which an image reproduction on a monitor (41) associated with the treatment station can be switched on or switched off.
11. Handpiece in particular according to claim 1,
35 characterized in that,
it has in its forward end region an image-taking device (31), the images from which can be shown on

the display (21).

12. Handpiece according to claim 11,
characterized in that,
5 the image-taking device (31) has a light inlet
opening (34) which is covered over by a light
permeable closure plate (35).
13. Handpiece according to claim 11,
10 characterized in that,
the image-taking device (31) has a camera module
(32).
14. Handpiece according to claim 11,
15 characterized in that,
the image-taking device (31) is arranged off centre
in the edge region of the handpiece (1).
15. Handpiece according to claim 11,
20 characterized in that,
the image-taking device (31) is arranged in the
angling or curvature plane of the handpiece (1),
preferably arranged on the forwardly directed side of
the angling or curvature.
- 25 16. Handpiece according to claim 11,
characterized in that,
the image-taking device (31) is arranged in a
material annex (33) which is preferably arranged to
30 the side.
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17. Handpiece according to claim 1 or 11,
characterized in that,
it is a functional handpiece and/or a probe handpiece
35 and/or a working handpiece.
18. Handpiece according to claim 11,

characterized in that,
the spacing of the image-taking device (31) from the
forward end of the outlet nozzle (4) is less than 30
mm, preferably about 5 mm to 10 mm.

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19. Handpiece according to claim 11,
characterized in that,
with a working handpiece (1) having an insertion
opening (46) for a tool (45) open to the side, in a
10 head (13) of the handpiece (1), the image-taking
device (31) is arranged in the end region before or
behind the head (13) on the side on which the
insertion opening (36) is located, and is directed
obliquely towards the middle axis of the insertion
15 opening (46) (Fig. 3).

20. Handpiece according to claim 11,
characterized in that,
with a working handpiece (1) having a forwardly open
insertion opening (46) for a tool (45), the image-
20 taking device (31) is arranged in the forward end
region of the handpiece (1), in particular in the
side periphery region of the handpiece (1) and is
forwardly directed (Fig. 4).

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21. Handpiece according to claim 1,
characterized in that,
it has a data receiver, for the reception of wireless
transmitted data, associated with the display, which
30 data corresponds to work-relevant data or images
which can be shown on the display (21).

22. Handpiece according to claim 11,
characterized in that,
35 it has a data transmitter (63), for the transmission
of data corresponding to images taken, associated
with the image-taking device (31).